

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-32858-1

Client Project/Site: Everett Terminal - Outfall 001 A

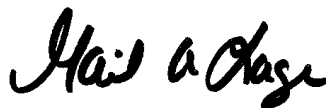
For:

Exxon Global Remed. Grp

52 Beacham Street

Everett, Massachusetts 02149

Attn: Mallory Stanhope



Authorized for release by:

8/22/2013 11:23:56 AM

Gail Lage, Senior Project Manager

gail.lage@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-32858-1	Outfall 01 A-TSS - 1	Wastewater	08/09/13 12:50	08/10/13 08:30
490-32858-4	Outfall 01 A	Wastewater	08/09/13 12:50	08/10/13 08:30

Case Narrative

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Job ID: 490-32858-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-32858-1

Receipt

The samples were received on 8/10/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.0° C.

Definitions/Glossary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Client Sample ID: Outfall 01 A-TSS - 1

Lab Sample ID: 490-32858-1

Date Collected: 08/09/13 12:50

Matrix: Wastewater

Date Received: 08/10/13 08:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	8.10		1.00	0.700	mg/L			08/10/13 13:18	1

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Client Sample ID: Outfall 01 A

Date Collected: 08/09/13 12:50

Date Received: 08/10/13 08:30

Lab Sample ID: 490-32858-4

Matrix: Wastewater

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.39		3.96	1.39	mg/L		08/20/13 14:51	08/20/13 14:51	1

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-101380/1-A

Matrix: Water

Analysis Batch: 101386

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101380

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.40		4.00	1.40	mg/L		08/20/13 14:51	08/20/13 14:51	1

Lab Sample ID: LCS 490-101380/2-A

Matrix: Water

Analysis Batch: 101386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	41.7	39.37		mg/L		94	78 - 114

Lab Sample ID: LCSD 490-101380/3-A

Matrix: Water

Analysis Batch: 101386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101380

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oil & Grease (HEM)	41.7	41.15		mg/L		99	78 - 114	4	18

Lab Sample ID: 490-32845-N-1-A MS

Matrix: Water

Analysis Batch: 101386

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101380

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	<1.58		48.2	47.35		mg/L		98	78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-99163/1

Matrix: Water

Analysis Batch: 99163

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.700		1.00	0.700	mg/L			08/10/13 13:18	1

Lab Sample ID: LCS 490-99163/2

Matrix: Water

Analysis Batch: 99163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	101	100.2		mg/L		100	90 - 110

Lab Sample ID: 490-32741-H-7 DU

Matrix: Water

Analysis Batch: 99163

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<0.700		<0.700		mg/L		NC	20

TestAmerica Nashville

QC Association Summary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

General Chemistry

Analysis Batch: 99163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32741-H-7 DU	Duplicate	Total/NA	Water	SM 2540D	
490-32858-1	Outfall 01 A-TSS - 1	Total/NA	Wastewater	SM 2540D	
LCS 490-99163/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-99163/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 101380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32845-N-1-A MS	Matrix Spike	Total/NA	Water	1664A	
490-32858-4	Outfall 01 A	Total/NA	Wastewater	1664A	
LCS 490-101380/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 490-101380/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 490-101380/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 101386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32845-N-1-A MS	Matrix Spike	Total/NA	Water	1664A	101380
490-32858-4	Outfall 01 A	Total/NA	Wastewater	1664A	101380
LCS 490-101380/2-A	Lab Control Sample	Total/NA	Water	1664A	101380
LCSD 490-101380/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	101380
MB 490-101380/1-A	Method Blank	Total/NA	Water	1664A	101380

Lab Chronicle

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Client Sample ID: Outfall 01 A-TSS - 1

Date Collected: 08/09/13 12:50

Date Received: 08/10/13 08:30

Lab Sample ID: 490-32858-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	99163	08/10/13 13:18	JMR	TAL NSH

Client Sample ID: Outfall 01 A

Date Collected: 08/09/13 12:50

Date Received: 08/10/13 08:30

Lab Sample ID: 490-32858-4

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			101380	08/20/13 14:51	BAD	TAL NSH
Total/NA	Analysis	1664A		1	101386	08/20/13 14:51	BAD	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

Protocol References:

1664A = EPA-821-98-002

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal - Outfall 001 A

TestAmerica Job ID: 490-32858-1

Laboratory: TestAmerica Nashville

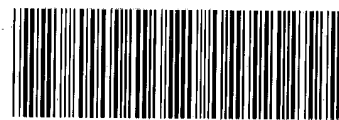
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13 *
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Nashville

COOLER RECEIPT FORM



490-32858 Chain of Custody

Cooler Received/Opened On 8/10/2013@ 0830

1. Tracking # 6190 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 1.0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler?

If yes, how many and where: one Back

5. Were the seals intact, signed, and dated correctly?

6. Were custody papers inside cooler?

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers:

YES NO

and intact

YES...NO...NA

Were these signed and dated correctly?

YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)?

YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)?

YES..NO...NA

12. Did all container labels and tags agree with custody papers?

YES..NO...NA

13a. Were VOA vials received?

YES...NO...NA

b. Was there any observable headspace present in any VOA vial?

YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) mbm

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO...NA

b. Did the bottle labels indicate that the correct preservatives were used

YES..NO...NA

16. Was residual chlorine present?

YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) mbm

17. Were custody papers properly filled out (ink, signed, etc)?

YES..NO...NA

18. Did you sign the custody papers in the appropriate place?

YES..NO...NA

19. Were correct containers used for the analysis requested?

YES..NO...NA

20. Was sufficient amount of sample sent in each container?

YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) mbm

I certify that I attached a label with the unique LIMS number to each container (initial) mbm

21. Were there Non-Conformance issues at login? YES...NO... Was a NCM generated? YES...NO...# _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Loc: 490
32858

8/22/2013

Consultant Name: ExxonMobil Everett Terminal

Address: 52 Beacham Street
City/State/Zip: Everett, MA 02149

ExxonMobil Project Mgr: Damian Guzman

Consultant Project Mgr: Triunvirate - Sandra Perry (Call Vsoth at (617) 799-4357 for sample related questions)

Consultant Telephone Number: 617-381-2802

Sample Name: (Print) Vsoth Street

Sampler Signature: *[Signature]*

Fax No.: 617-381-2954

Regulatory District (CA)

TA Account #:

Invoice To: (ExxonMobil PM unless otherwise indicated)

Report To: SPERRY@triumvirate.com; damian.a.guzman@exxonmobil.com

PG #:

PROJECT #: NPDES Permit MA0000833

Facility ID #

Site Address SAME

City, State, Zip

Analyze For:

August 2013 Monthly 1st Rain																				
Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative			Matrix					Monthly	Quarterly				Analyze For:
							Methanol													
							Sodium Bisulfate													
							HCl (Blue Label)													
							NaOH (Orange Label)													
							H ₂ SO ₄ Plastic (Yellow Label)													
							H ₂ SO ₄ Glass(Yellow Label)													
							HNO ₃ (Red Label)													
							None (Black Label)													
							Groundwater													
							Wastewater													
							Drinking Water													
							Sludge													
							Soil													
							Other (specify):													
							TSS - SM 2540D													
							Oil & Grease - EPA 1664													
							Available Cyanide - OIA 1677													
							Total Mercury - EPA 245.1													
							PAH's - EPA 610													
							BETX & MTBE - EPA 602													
							ETHANOL - 1671													

Comments/Special Instructions:

Laboratory case narrative to NELAC Institute standard protocol

PLEASE SEE ATTACHED ML REQUIREMENTS

Relinquished by: <i>[Signature]</i>	Date: 8/13/13	Time: 0830	Received by: <i>[Signature]</i>	Date: 8/13/13	Time: 0830
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Ref: S490-9326

Date: 11/11/13
Mgt: 10.00 LBS

SHIPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Pn



Sys: PRIORITY OVERNIGHT
TRK: 5666 1440 6190

PH Lab: 7.754;
Temp: 21.80C.

Prepared vsr/eng 01/14

Rev. 8.0. 2/12/12

490-32858

 	ExxonMobil Everett Terminal NPDES Permit Compliance & Sampling Procedure	Revision Number: 2
	NPDES Permit #MA0000833	Revision Date: 3-22-12
	Prepared by: EMPCo	Endorsed by:
		Procedure Effective Date: 1-1-12

Appendix E

Required MLs for Samples from Outfalls 01A and 01C to Accompany Chain of Custody

Polycyclic Aromatic Hydrocarbons

Group I	Permit Required Minimum Level for Analysis, ug/L
Benzo(a)anthracene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.05
Benzo(k)fluoranthene	<0.05
Chrysene	<0.5
Dibenzo(a,h)anthracene	<0.10
Indeno(1,2,3-cd)pyrene	<0.10
Group II	Permit Required Minimum Level for Analysis, ug/L
Acenaphthene	<5.00
Acenaphthylene	<5.00
Anthracene	<2.0
Benzo(ghi)perylene	<0.2
Fluoranthene	<0.50
Fluorene	<0.5
Naphthalene	<5.00
Phenanthrene	<2.00
Pyrene	<1.00
Other	Permit Required Minimum Level for Analysis, ug/L
Available Cyanide	< 2.00
Total Mercury (Hg)	< 2.00
Methyl Tertiary-Butyl Ether (MTBE)	< 5.00

Login Sample Receipt Checklist

Client: Exxon Global Remed. Grp

Job Number: 490-32858-1

Login Number: 32858

List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	